

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/593,119
Source: FWP
Date Processed by STIC: 9/28/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/593,119

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

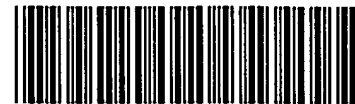
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
 Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING

DATE: 09/28/2006

PATENT APPLICATION: US/10/593,119

TIME: 10:37:04

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09282006\J593119.raw

4 <110> APPLICANT: Degussa AG
 6 <120> TITLE OF INVENTION: Novel alcohol dehydrogenases
 8 <130> FILE REFERENCE: S-IPM-PAT/Dr. Re-ko - K1419 EP
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/593,119
 C--> 10 <141> CURRENT FILING DATE: 2006-09-18
 10 <160> NUMBER OF SEQ ID NOS: 68
 12 <170> SOFTWARE: PatentIn version 3.1

*see item 4 on
 Enr summary sheet*

**Does Not Comply
 Corrected Diskette Needed**

ERRORED SEQUENCES

2654 <210> SEQ ID NO: 68
 2656 <211> LENGTH: 1047
 2658 <212> TYPE: DNA
 2660 <213> ORGANISM: unknown
 2662 <220> FEATURE:
 2664 <221> NAME/KEY: source
 2665 <223> OTHER INFORMATION: ZF0050310= Arthrobacter paraffineus
 2667 <400> SEQUENCE: 68
 2668 atgaaggcaa tccagtacac gagaatcggc gcagaacccg aactcacgga gattcccaaaa 60
 2670 cccgagcccc gtccaggtga agtgctcctg gaagtcaccg ctgccggcgt ctgccactcg 120
 2672 gacgacttca tcatgagcct gcccgaagag cagtacacct acggccttcc tctcacgctc 180
 2674 ggccacgaag gcgcccggcc ggctcgccgcc gtcggcgagg gcgtcgaagg actcgacatc 240
 2676 ggaaccaatg tcgtcgtcta cggaccctgg ggctgtggca gctgttggca ctgctcgcaa 300
 2678 ggactcgaaa actactgttc tcggggcaaaa gaactcggca tcaatcctcc tgggtctcgg 360
 2680 gcacccggcg cggttgccga attcatgatc gtcgattcac ctgccacct cgtcccgatc 420
 2682 ggcgacctcg atccggtcaa gacggtgcca ctgaccgacg ccggtctgac tccgtatcac 480
 2684 gcgatcaagc gttcactgcc gaaacttcgc ggtggcgcg acgccgtcgt catcggtacc 540
 2685 ggcggtctcg gccatgtcgc catccaactc ctccgccacc tctcggcagc aaccgtcatc 600
 2687 gcactcgacg tgagcgcgga caagctcgaa ctggcaacca aggtaggcgc tcacgaagtg 660
 2689 gtcctgtccg acaaggacgc ggccgagaac gtccgcagga tcaccggaag tcagggcgcc 720
 2691 gcactggttc tcgacttcgt cggctatcag cccaccatcg acaccgcgat ggctgtcgcc 780
 2693 ggcgtcggat cggacgtcac gatcgtcggg atcggcgacg ggcaggccca tgccaaagtc 840
 2695 gggttcttcc aaagtcctta cgaggcttct gtgacagttc cgtactgggg tgcccgaac 900
 2697 gagctgatcg aattgatcga cctggcgcac gccggcatct tcgacatcgc ggtggagacc 960
 2699 ttcagtctcg acaacggcgc cgaagcgat cgaacgactg ccgccggaac gtcagcggc 1020
 E--> 2701 cgcgcgggtt tggtccctgg tctgtag 1047 ← insert

see pp 2, 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/593,119

DATE: 09/28/2006
TIME: 10:37:05

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\09282006\J593119.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 26,27,33
Seq#:2; Line(s) 97,98,104
Seq#:6; Line(s) 323
Seq#:7; Line(s) 374
Seq#:8; Line(s) 425
Seq#:9; Line(s) 476
Seq#:10; Line(s) 527
Seq#:11; Line(s) 578
Seq#:14; Line(s) 707
Seq#:15; Line(s) 760
Seq#:16; Line(s) 817
Seq#:17; Line(s) 881
Seq#:35; Line(s) 1670,1671,1677
Seq#:36; Line(s) 1714,1715,1721
Seq#:40; Line(s) 1857
Seq#:41; Line(s) 1894
Seq#:42; Line(s) 1929
Seq#:43; Line(s) 1966
Seq#:44; Line(s) 2002
Seq#:45; Line(s) 2039
Seq#:50; Line(s) 2197
Seq#:51; Line(s) 2238

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/593,119

DATE: 09/28/2006

TIME: 10:37:05

Input Set : A:\PTO.RJ.txt

Output Set : N:\CRF4\09282006\J593119.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:30 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:31 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:32 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:33 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:34 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:35 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:36 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:100 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:101 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:102 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:103 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:104 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:105 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:106 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:107 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:277 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:278 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:279 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:280 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:281 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:282 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:283 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:321 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:322 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:323 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:324 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:325 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:326 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:327 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:328 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:329 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:372 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:373 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:374 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:375 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:376 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:377 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:378 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:379 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:380 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:423 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:424 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:425 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:426 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:427 M:259 W: Allowed number of lines exceeded, <223> Other Information:

VERIFICATION SUMMARY

DATE: 09/28/2006

PATENT APPLICATION: US/10/593,119

TIME: 10:37:05

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09282006\J593119.raw

L:428 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:429 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:430 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:431 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:1562 M:283 W: Missing Blank Line separator, <220> field identifier
L:1725 M:283 W: Missing Blank Line separator, <400> field identifier
L:2701 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1047 SEQ:68

10/593, 119

5

<210> 1

<211> 162

<212> PRT

<213> unknown

<220>

<221> source

<223> ZF0002326= Actinoplanes missouriensis; ZF0003505= Streptomyces;
 ZF0050197= Pseudomonas oleovorans; ZF0050294= Rhodococcus; ZF0050330= Bacillus;
 ZF0051303= Bacterium; ZF0051337= Methylobacter; ZF0051321= Bacterium; ZF0050782=

Lactobacillus bulgaricus; ZF0050544= Phyllobacterium rubiacearum; ZF0002852=

Rhodococcus; ZF0050310= Arthrobacter paraffineus; ZF0002862= Streptomyces

clavuligerus; ZF0050292= Bacterium; ZF0002031= Streptomyces; ZF0002349=

Streptomyces spectabilis; ZF0002434= Streptomyces; ZF0002437= Streptomyces;

ZF0003712= Micromonospora; ZF0003765= Streptomyces; ZF0051305= Bacterium;

ZF0003513= Actinomyces; ZF0050993= Kocuria; ZF0002018= Streptomyces; ZF0003767=

Actinomyces; ZF0002332= Streptomyces diastatochromogenes; ZF0003768=

Actinomyces; ZF0002379= Streptomyces coelestis; ZF0002351= Nonomuraea

roseoviolacea; ZF0003769= Actinomyces;

<400> 1

Per 1.823 of Sequence Rules, <223> response
 has a MAXIMUM of 4 lines. Please insert a <220>
 above every 5th line, and a <223> at beginning of every
 5th line.

<220> <
 <223>

<220> <
 <223>

The above is a sample of global errors.